

REMARKS

The present communication is responsive to the Official Action mailed September 29, 2010. Claims 75-87 were pending before submission of this paper and stand rejected. Claims 75, 80-82 and 85 are amended without adding new matter. Claims 76-79, 83, 84, 86 and 87 are canceled, and claims 88-92 are newly added. Claims 75, 80-82, 85 and 88-92 are currently pending. Reconsideration of the claims is respectfully requested in view of the amendments and following remarks.

Claim Rejections Under 35 U.S.C. §§ 102 and 103

Claims 75-80 and 87 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,239,199 issued to Chiu. Claims 81, 82 and 84-86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu and U.S. Patent No. 5,343,366 issued to Cipolla. Claim 83 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu and U.S. Patent No. 5,815,371 issued to Jeffries. Without conceding the merits of the rejection, Applicant respectfully submits that the amended claims overcome the rejection, as hereinafter set forth.

The claims are directed to an electronic device with an integrated circuit package support system. The electronic device includes integrated circuit packages attached to a contact surface along bottom edges of the integrated circuit packages. An integrated circuit package support includes a first arm and a second arm each having one end extending from the contact surface, and a base connected to the other ends of the first and second arms. The integrated circuit packages are attached to the base such that the base only contacts a central portion of each integrated circuit package.

Specifically referring to the claims, independent claim 75, as amended, recites:

An electronic device, comprising:
a plurality of integrated circuit packages;
a contact surface electrically connected to a bottom edge of each integrated circuit package; and
an integrated circuit package support comprising a first arm and a second arm each extending from the contact surface at one end, and a base connecting the first arm and the second arm at opposite ends thereof, wherein the base of the support contacts only a center portion of a top edge of each integrated circuit package.

Applicant sets forth that these features of the invention are not disclosed in the cited references.

Specifically, Chiu is directed to a vertical lead-on-chip package. Referring to Fig. 6, Chiu discloses an array 30 of devices 10 mounted in a U-shaped holding fixture 31. A heat sink 16 at one end of each device is placed in a corresponding slot 34 of the fixture. Leads 14 at an opposite end 11 of each device are inserted in corresponding openings formed in an insulated soldering mask 32 such that the leads may be soldered to a circuit board. The fixture is bonded to the soldering mask via a high temperature adhesive 33. (See col. 2, lines 49-62.) However, Chiu is not the same as claim 75 because Chiu does not disclose that the fixture contacts only a center portion of a top edge of each device.

Neither Chiu nor any of the other cited references, alone or in combination, disclose all of the features recited in claim 75. Specifically, Chiu does not disclose "an integrated circuit package support comprising a first arm and a second arm each extending from the contact surface at one end, and a base connecting the first arm and the second arm at opposite ends thereof, wherein the base of the support contacts only a center portion of a top edge of each integrated circuit package." For at least this reason, claim 75 is allowable over the cited art.

Claims 80-82 and 85 depend from claim 75. As discussed above, claim 75 is allowable. Thus, claims 80-82 and 85 are also allowable for at least the same reasons, as well as on their own merits.

Claims 76-79, 83, 84, 86 and 87 are canceled rendering the rejection of these claims moot.

In view of the foregoing, Applicant respectfully requests withdrawal of the rejections.

New Claims

Claims 88-92 are newly added and include features that are not disclosed in the cited references. Accordingly, claims 88-92 are allowable.

CONCLUSION

As it is believed that all of the rejections set forth in the Official Action have been fully met, favorable reconsideration and allowance are earnestly solicited.

If, however, for any reason the Examiner does not believe that such action can be taken at this time, it is respectfully requested that he telephone Applicant's attorney at (908) 654-5000 in order to overcome any additional objections which he might have.

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge Deposit Account No. 12-1095 therefor.

Dated: January 28, 2011 Respectfully submitted,
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